



STAR
*Hardware
Specialties*

No. 844 New Star Tank Heater

Cast Iron — One Size Only

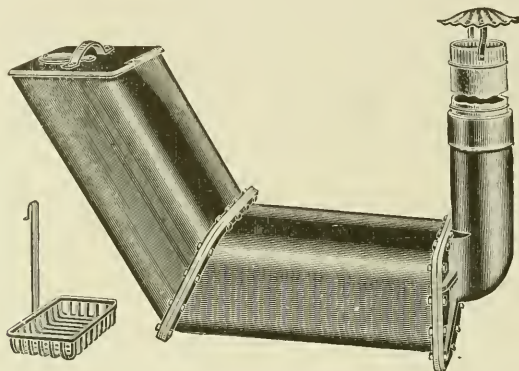


Figure 844

THE New STAR Tank Heater illustrated above is a later design of the STAR Tank Heater, which has been so long and favorably known in every state where tank heaters are used.

This New STAR Heater differs from the former type in that it has square instead of rounding corners. This heater is cast in two halves, as the illustration shows. The New STAR Heater is carefully cast of the best gray iron. Its extra weight makes it self-sinking. It is not necessary to provide for any fastenings either in cement, wood, or steel tanks.

The New STAR is a submerged heater. This means that the fire is entirely under the water so that the full benefit is derived from every bit of fuel burned. A heavy heater of this type holds the heat longer and keeps the water from freezing after the fuel is consumed.

The basket grate is held in place by a heavy, steel handle, as illustrated. The grate containing the fire is easily lifted out while the ashes are being removed and then dropped quickly into the position shown.

The New STAR Heater, height 24 inches, shipping weight, 225 pounds.

No. 242 Star Tank Heater

Cast Iron—One Size Only

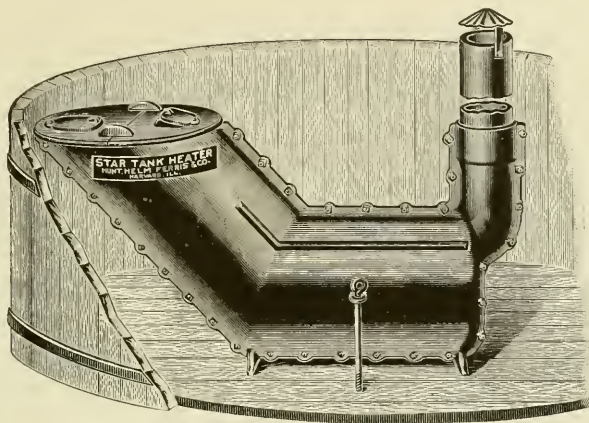


Fig. 242

THE STAR Tank Heater, shown in the above illustration, has been on the market for years and has given such an excellent account of itself that it needs no introduction in those localities where Tank Heaters are used and appreciated.

Its reputation is such that there is a continued demand for it, some preferring a heater of this shape to the square type of heater shown in the illustration of the No. 844 heater on the preceding page.

This heater is being made today, as it has been for several years past, of the very best quality of gray iron. It is a heavy heater that sinks of its own weight, thus making it unnecessary to provide for fastenings in either iron, cement or wooden tank.

This heater is built on the principle of a base burner, the heat passing around the outer shell of the heater. By this system of radiation, the heat is so thrown into the water that a maximum amount of heat is given off with a minimum amount of fuel.

Height 24 inches. Shipping weight, 240 lbs.

No. 691 New Rinkle Tank Heater

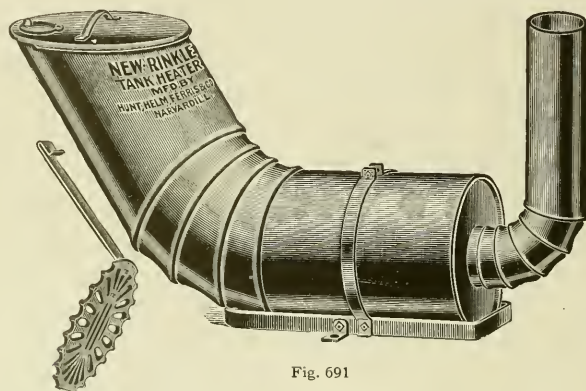


Fig. 691

THE New Rinkle Tank Heater is a submerged heater, which works on the same principle as the STAR Tank Heater shown on the opposite page, and can be used with wood, iron or cement tank.

The body of the heater is made of 14-gauge boiler iron, all except the end or head being in one piece.

The smoke pipe is of one piece, made with a flange at the base. This flange is electrically welded to the inside surface of the end of the heater, the hole in the end being cut slightly smaller than the pipe so that when the pipe is inserted it is held firmly in place.

The end of the heater is made with a flange or a rim which is welded to the inner surface of

the body. This construction makes the New Rinkle one solid piece without seams. Being made of heavy boiler iron, it is proof against cracking.

The grate shown in the illustration hangs in the heater. This grate is easily lifted out and drops into position when replaced, which makes it easy to clean out the ashes.

The cover is made with a rim, which holds it in place and a handle and draft slide are riveted to the cover. As it is easy to operate and heats the most water for the amount of fuel consumed, it is a most economical heater.

The New Rinkle Heater measures 24 inches high.

Weight, 93 pounds.

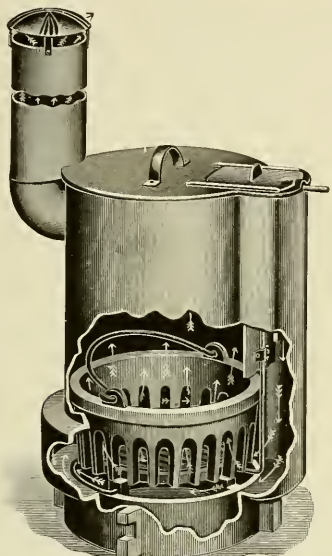


Fig. 222

No. 222 Iron King Tank Heater

THE body is one piece, the draft chamber being separated from the fire pot by a steel partition. The draft opens at the lower end into the drum shaped portion of the body casting surrounding the basket grate, insuring an abundance of draft at all times. This heater has a cast iron ash pan and a grate shaker.

One size only. Diameter, 14 inches.
Height, 24 inches. Shipping weight, 143 lbs.

No. 223 Iron King Stay-Down Tank Heater

THE illustration opposite shows the Iron King Heater same as above, with the addition of a weight casting which anchors the heater in the bottom of a galvanized or wood tank without the use of stay rods of any kind. This is the heater that the trade has been looking for. Sells on sight.

One size only. Diameter, 14 inches.
Height, 24 inches. Shipping weight, 173 lbs.

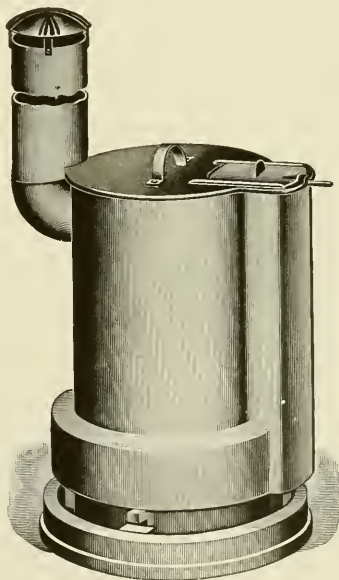


Fig. 223

No. 220 Black Jack Tank Heater

Flat Grate

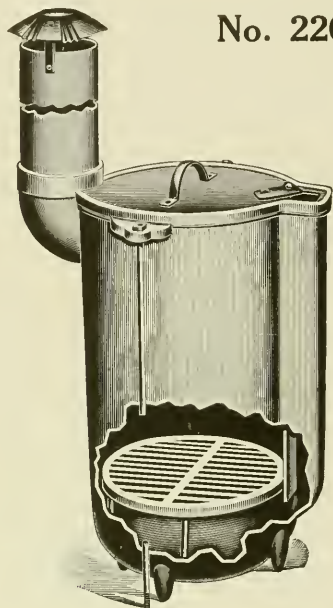


Fig. 220

THIS heater is made of cast iron. The body is one piece, durable and heavy. No leak is possible. Furnished with flat grate. The entire top lifts off, allowing the easy removal of the ashes. The air chamber is a part of the body casting and, therefore, just as durable as any other part of the heater. Height of either size, 24 inches.

No. 1. Diameter, 14 inches. Shipping weight, 115 lbs.

No. 2. Diameter, 17 inches. Shipping weight, 147 lbs.

No. 221 Black Jack Tank Heater

Basket Grate

THE body casting on this heater is the same as on the heater shown above. This heater is furnished with basket grate. Height of either size, 24 inches. We furnish both heaters shown on this page with heat deflector where desired. Too much cannot be said in favor of the deflector. It is so constructed that the heat is conducted entirely around the outer surface of the heater before it enters the smoke pipe. It is a great fuel saver.

No. 1. Diameter, 14 inches. Shipping weight, 110 lbs.

No. 2. Diameter, 17 inches. Shipping weight, 151 lbs.

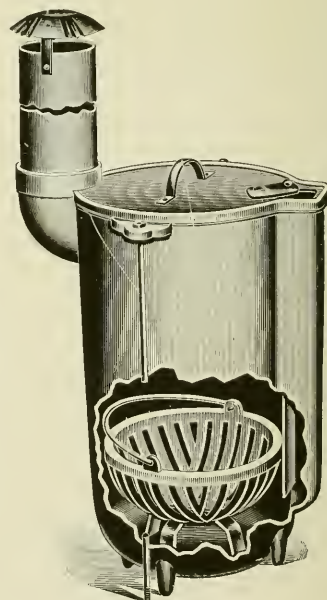


Fig. 221

No. 214 Standard Tank Heater

THE heaters shown on this page are made of galvanized steel, both body and bottom. They will last much longer than those made of common black steel. The Standard Heater has a hinged grate, so that one-half can be raised with the poker and the ashes taken out without putting out the fire. Long, straight-handled shovel and poker furnished with each heater. Height of both sizes, 24 inches.

No. 1. Diameter, 16 inches. Shipping weight, 40 lbs.

No. 2. Diameter, 19 inches. Shipping weight, 60 lbs.

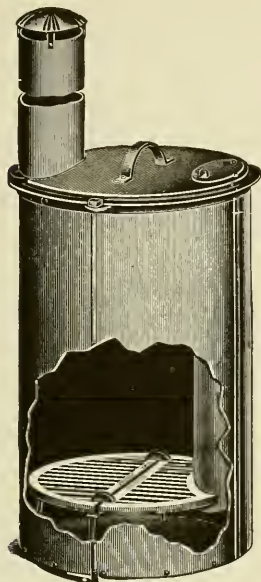


Fig. 214

No. 215 Harvard Tank Heater

THE heaters shown on this page are tested with water before leaving the factory and warranted not to leak. The Harvard Heater has a basket grate. The fire can be taken out with the grate and replaced, thus saving the trouble of rekindling. Special long-handled shovel and poker furnished with each heater. Height of both sizes, 24 inches.

No. 1. Diameter, 16 inches. Shipping weight, 45 lbs.

No. 2. Diameter, 19 inches. Shipping weight, 65 lbs.



Fig. 215

No. 498 Giant Star Tackle Block Wire Stretcher

□ Plain or Roller Bearing

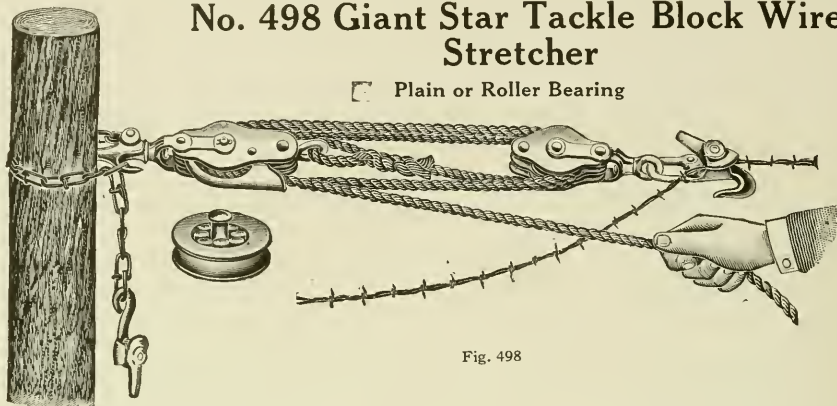


Fig. 498

THE largest and most powerful Wire Stretcher made. Quick, absolutely sure. Never slips, for the heavier the pull, the better the lock holds. A one-pound pull on the rope is equal to four pounds on the wire. Self-supporting from the post and locked and unlocked by a simple right or left movement of the hand. Made with steel blocks and malleable straps. Removable steel axles and hardened steel roller bearings. Equipped with

the best wire clamps ever put on a stretcher. Manufactured in three sizes, as shown on this page.

Giant STAR Roller Bearing Tackle Block Wire Stretcher, finished in gray enamel, 3-inch sheaves, strung and wrapped with 23 feet of $\frac{1}{2}$ -inch manila rope, weight, per dozen, packed for shipment, 120 lbs.

Also made plain bearing, finished in red enamel.

No. 714 Giant Star "Jr." Tackle Block Wire Stretcher

□ Plain or Roller Bearing

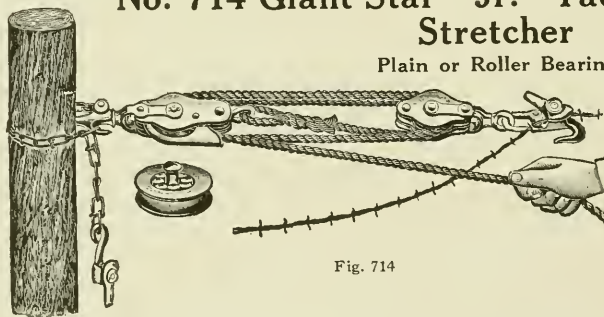


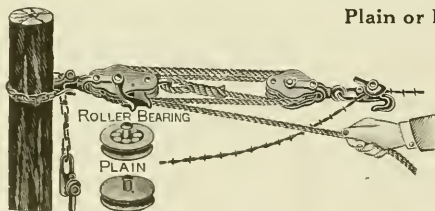
Fig. 714

AVERY popular number, identical in construction with No. 498, shown above, only with $2\frac{1}{2}$ -inch diameter sheaves. Strong, positive and efficient. Giant STAR "Junior" Roller Bearing Tackle Block Wire Stretcher, finished in gray enamel, strung and wrapped with 20 feet of $\frac{1}{2}$ -inch manila rope, $2\frac{1}{2}$ -inch sheaves. Weight, per dozen, packed ready for shipment, 108 lbs.

Also made plain bearing, finished in red enamel.

No. 482 Star Tackle Block Wire Stretcher

□ Plain or Roller Bearing



SAME as two numbers above, only made with smaller blocks and 2-inch sheaves. STAR Roller Bearing Tackle Block Wire Stretcher, finished in gray enamel, strung and wrapped with 16 feet of $\frac{3}{8}$ -inch manila rope.

Weight, per dozen, packed ready for shipment, 66 lbs. Also made plain bearing, finished in red enamel.

No. 188 Star Malleable Tackle Block Wire Stretcher

(Patented)

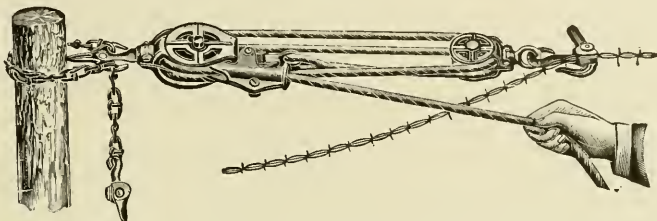


Fig. 188

IN the STAR Malleable Tackle Block Wire Stretcher each block is constructed with a swiveling hook. Rope sheaves are covered and revolve on steel axles. Axles are headed at one end and held by cotter pin at the other, making it easy to replace sheaves whenever necessary.

A one-pound pull on the rope is equal to four

pounds on the wire. Self-operating clamp holds the rope firmly at any point. It is locked and unlocked simply by moving the hand to right or left.

Strung with 16 feet of 3-8 inch rope, ready for use.

Weight, per dozen, 54 pounds.

No. 400 Star Steel Tackle Block Wire Stretcher

Plain or Roller Bearing

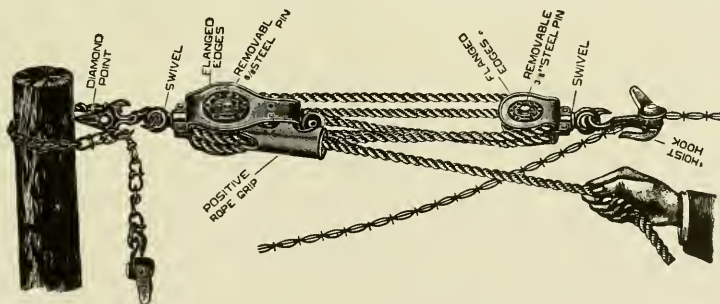


Fig. 400

THE STAR Steel Tackle Block Stretcher is self-supporting at the post. Each block is constructed with a swiveling hook and the side plates have flanged edges which prevent wear on the rope.

Each block has a removable pin held in place by a cotter, so that a sheave can be replaced when necessary. The eccentric clamp used on

the rear block is constructed with a hook so that the stretcher can be used for a hoist if desired.

Strung with 16 feet of 3-8 inch rope, ready for use. Finished in gray enamel.

Also made plain bearing, finished in red enamel.

Weight, per dozen, 48 pounds.

No. 190 Ellwood Pattern Wire Stretcher

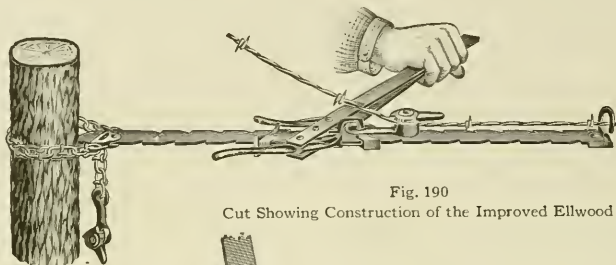


Fig. 190

Cut Showing Construction of the Improved Ellwood

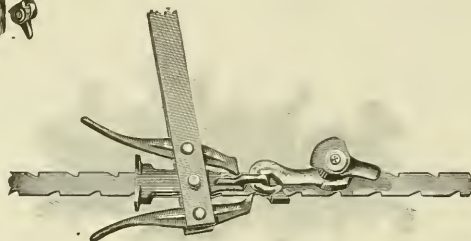


Fig. 191½

THE Ellwood Wire Stretcher has been on the market for the past twenty years and is known as the best flat bar wire stretcher made. Note that our stretcher is self-supporting at the post. Packed three dozen in a case. The weight per dozen, packed for shipment, is 54 lbs.

No. 191 Ellwood Rod Wire Stretcher

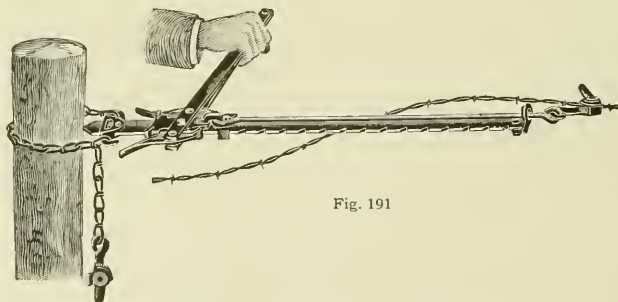


Fig. 191

ABOVE we illustrate the Ellwood Wire Stretcher with rod extension. This Stretcher having been furnished to the trade for many years, is well known and no extended description is necessary. Note, please, that it is self-supporting at the post, which is a patented feature of all our wire stretchers.

Packed three dozen in a case. The weight per dozen, packed for shipment, is 66 lbs.

No. 193 Star Round Bar Wire Stretcher

THE smooth, round bar enables the operator to use the lever in any position on the upper or under side of the bar and on either side of the fence. It grips the bar at any point desired and never slips.

The weight per dozen, bundled for shipment, is 60 lbs.

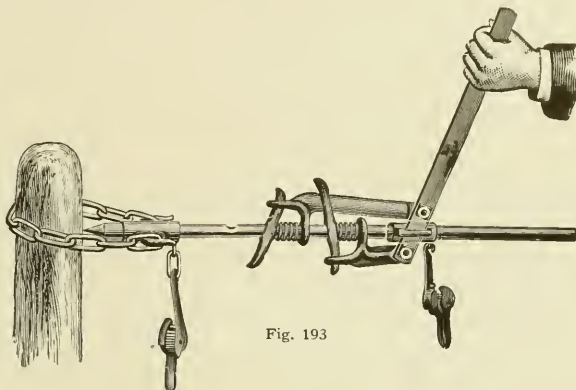


Fig. 193

No. 197 The Little Giant Wire Stretcher

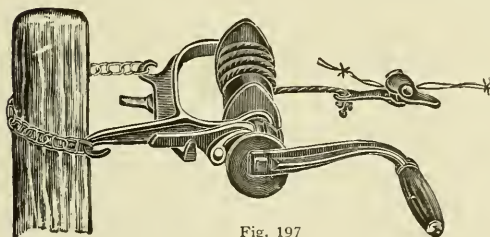


Fig. 197

THIS stretcher excels anything made in the line of crank stretchers. It is particularly adapted for export trade.

No. 281 Little Giant, Sr., with chain for attaching to post, per dozen, 51 lbs.

No. 197 Little Giant, Jr., with rope for attaching to post, per dozen, 48 lbs.

No. 196 Improved Dean Wire Stretcher

HAS notches on one side of the bar only. The price being less than the Elwood makes it a good flat bar stretcher to sell at a low price.

The weight, per dozen, bundled for shipment, is 50 lbs.

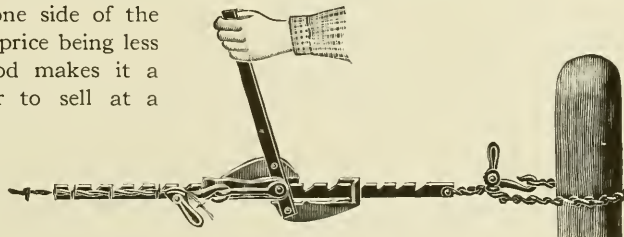


Fig. 196

No. 200 Sampson Woven Wire Stretcher

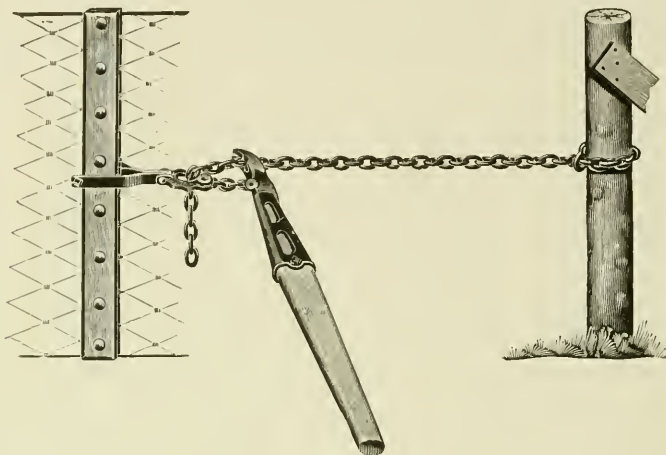


Fig. 200

THIS stretcher answers perfectly the demand for a first class woven wire stretcher of sufficient strength to sustain any pull with enough power to stretch any length of fence desired. The Sampson fits the case exactly for it is strong enough to stand any strain necessary to make the fence snug and tight.

It is made very simple in operation and construction and works perfectly. Every movement of the powerful handle stretches the wire several inches. The grip engages the chain firmly and is easily moved when slackened. Handle is 5 feet long, clamping bars 4 feet 6 inches long, both of hardwood. Eight feet of $\frac{3}{8}$ -inch tested chain with each stretcher.

The Sampson is furnished with handle without extra charge. Weight each, 35 lbs.

No. 858 Star Stable Broom

STAR Stable Broom, shown at the right, is made of the best African bass fiber. The block and handle are of carefully selected wood. While the broom is designed for stable use, it can also be used for sweeping any floor, platform or pavement where there is heavy sweeping to be done.

No. 858 STAR Stable Broom, 14-inch size, weight per dozen, without handle, 32 lbs.

No. 859 STAR Stable Broom, 16-inch size, weight per dozen, without handle, 35 lbs.

Handles for STAR Stable Brooms, weight per dozen, 24 lbs.

No. 822 Star Sidewalk Scraper

THE STAR Sidewalk Scraper has a blade of heavy pressed steel, firmly bolted to the malleable iron frame which fastens it to the handle.

The blade is so curved that when handling slush or snow up to four or five inches deep, a good, vigorous push will send the snow beyond the edge of the walk.

The blade is so shaped that the scraper can also be operated by pulling. The illustration at the left shows a scraper being pulled, and the small, round picture at the bottom of the page shows the same scraper in position for pushing.

The blade is 18 inches long and the scrapers, complete with handles, weigh 63 lbs. per doz.

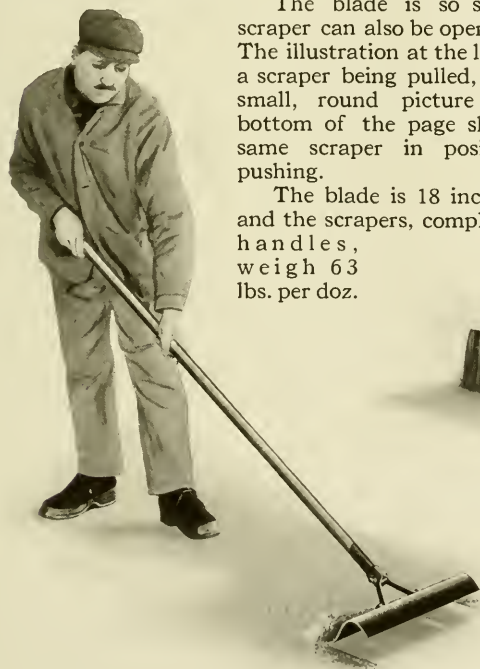


Fig. 822

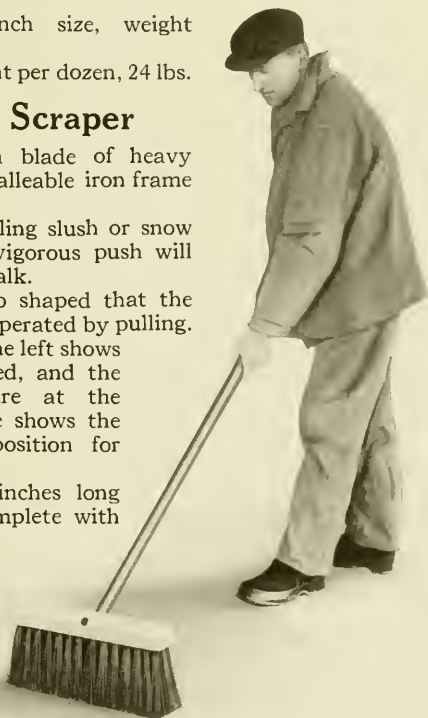
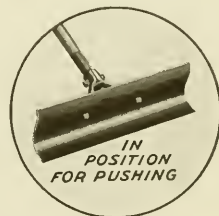


Fig. 858



Giant Star Self-locking Steel Hoists

A DEVICE may be adjustable, and that is all very good, but it may adjust automatically, and that is far better.

All sizes of STAR Roller-bearing Steel Hoists are automatically adjustable, that is—three different sizes of rope may be used in any size hoist and the lock of the STAR Hoist automatically adjusts itself to the size of rope.

Suppose you are using one-half inch rope with a No. 22 Giant STAR Hoist and wished to change it to three-eighths inch or five-eighths inch rope; this may be done; the automatic adjustable lock will take care of either size.

Suppose you are using a Giant STAR Hoist on outside work and the rope becomes soaked and much swollen. It is not necessary to do any adjusting as the rope lock on all Giant STAR Hoists automatically adjusts itself to meet conditions.

Fig. 565 shows the location of the Roller Bearings and Axle of the Giant STAR Hoists. It also shows the construction of the lock and gripping dog.

When the draft rope which passes through the lock is pulled slightly away from the block, as shown in Fig. 506, the gripping dog revolves on the stationary pin, which holds it. This operation throws the gripping dog into contact with the rope, and automatically locks it. The Giant STAR Hoist is the only hoist on the market with an automatic adjustable lock.

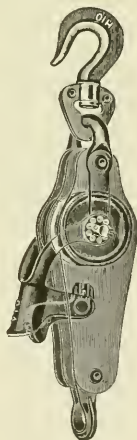


Fig. 565

Showing Upper
Block and Location
of Roller Bearings

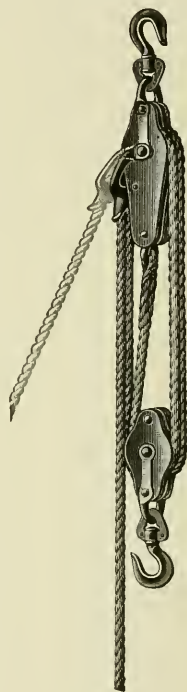


Fig. 506

Shows Manner in Which
Hoists Automati-
cally Lock

Giant Star Roller Bearing Steel Hoists

A Few Important Features

1. Steel blocks throughout, triple, double and single sheave, both upper and lower.

2. A heavy reinforced, drop forged yoke on each block is attached to the axle pin. The hooks are attached to this yoke by a special double pressed and riveted swivel, which slides on this yoke, making the block very flexible.

3. The hooks are extra heavy, reinforced, drop forged and very strong.

4. The sheaves revolve on hardened steel axles, fitted with cold rolled steel bearings, reducing the friction to a minimum.

5. The axles are held in place and can be instantly removed and replaced at any time if desired. These are key axles—an important point. They will not turn when heavily loaded, thus avoiding cutting the sides of the hoist.

6. The lock, which is the vital feature of the hoist, is made of malleable iron and is attached to the axle pin, making it very quick, sure, safe and easy in operation. This lock is on the draft rope. You do not have to use any special locking rope on the Giant STAR. When you stop pulling and move the draft rope slightly outward away from the block or if pulling in that direction, the hoist instantly locks. The heavier the load, the more securely it holds and locks. The lock is released instantly by a slight pull or a little snap of the rope towards the block. The Giant STAR Hoist elevates, lowers, locks and unlocks with one rope only.

7. These hoists are furnished in battleship gray enamel finish. All hoists furnished without rope.

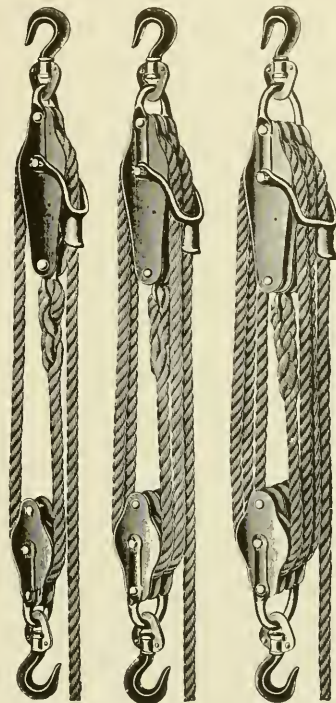


Fig. 505

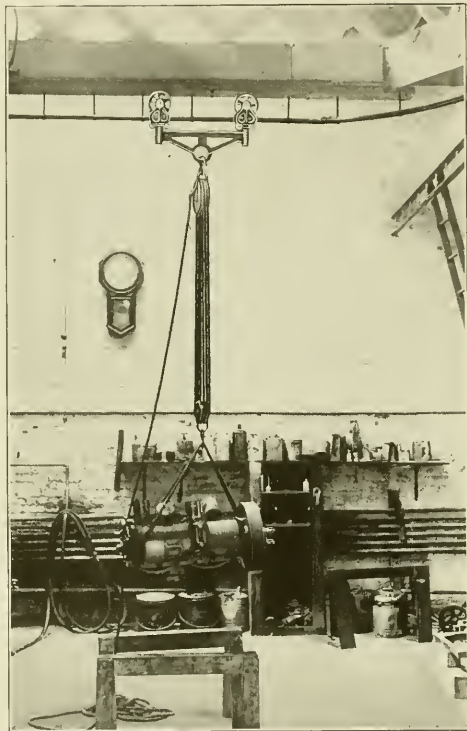
Made in thirteen sizes as follows:

No.	Sheaves Above	Sheaves Below	Size of Rope	Diameter	Approx. Capacity	Weight, Lbs. Each
2	2	2	$3\frac{3}{8}$ in.	2 in.	1,000 lbs.	4
21	1	1	$3\frac{1}{2}$ in.	$2\frac{1}{2}$ in.	2,000 lbs.	5
22	2	2	$3\frac{1}{2}$ in.	$2\frac{1}{2}$ in.	2,000 lbs.	6
23	3	3	$3\frac{1}{2}$ in.	$2\frac{1}{2}$ in.	2,000 lbs.	8
31	1	1	$1\frac{1}{2}$ in.	3 in.	4,000 lbs.	6
32	2	2	$1\frac{1}{2}$ in.	3 in.	4,000 lbs.	8
33	3	3	$1\frac{1}{2}$ in.	3 in.	4,000 lbs.	9 $\frac{1}{2}$
41	1	1	$5\frac{3}{8}$ in.	4 in.	6,000 lbs.	10 $\frac{1}{2}$
42	2	2	$5\frac{3}{8}$ in.	4 in.	6,000 lbs.	14 $\frac{1}{2}$
43	3	3	$5\frac{3}{8}$ in.	4 in.	6,000 lbs.	18
51	1	1	$3\frac{3}{4}$ in.	5 in.	8,000 lbs.	13
52	2	2	$3\frac{3}{4}$ in.	5 in.	8,000 lbs.	18 $\frac{1}{2}$
53	3	3	$3\frac{3}{4}$ in.	5 in.	8,000 lbs.	23 $\frac{1}{2}$

Bear in mind, please, that this is the only complete line of self-locking, roller-bearing hoists on the market.

No. 547 Star Trolley Conveyor

Used in Connection With STAR Roller Bearing Self-Locking Steel Hoists



Showing STAR Trolley Conveyor in Actual Use.

For Use in Garages, Machine Shops, Warehouses, etc.

HERE is an inexpensive special type of roller bearing conveyor which may be used for a great variety of purposes. For the garage, in taking the engine out of the car to the bench and back again; for use in warehouses and factories, for carrying coal or any purpose where a load up to 1,000 lbs. is to be carried quickly and safely.

The conveyor is constructed of steel and malleable iron. The four tracker wheels are each $4\frac{1}{2}$ inches in diameter, revolving on hardened steel axles fitted with cold rolled steel bearings. The trucks are malleable iron and are attached by swivel to a malleable frame. A clevis is attached in the middle of the frame from which may be suspended any one of our roller bearing steel hoists. The construction of the Conveyor trucks make it impossible for it to jump the track.

The track on which the conveyor runs may be hung in several directions with branch lines either parallel or at angles to the main line.

The load is automatically locked and carried at any desired height.

This is a great labor saver and can be arranged to meet every condition and need.

Send us a sketch of your floor and requirements for complete plans, estimates and suggestions.

Weight of Conveyor, 28 lbs.

Details of Star Trolley Conveyor

Used in Connection with the STAR Roller Bearing Steel Hoists

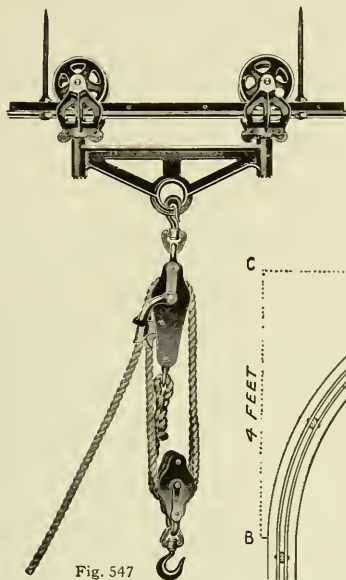


Fig. 547



Fig. 414

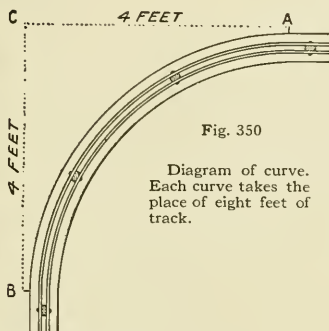


Fig. 350

THE track on which the STAR Trolley Conveyor runs is the STAR Double Angle Steel Track, page 000, which by means of the Lag Screw Hanger (Fig. 414) can be suspended from the joists and adjusted absolutely even. Length of regular hangers is 10 $\frac{1}{4}$ inches, although we furnish longer hangers when necessary. The track weighs 2 lbs. per foot and the Hangers are placed one foot apart.

STAR Switches and Curves enable you to make the Track conform to practically any overhead arrangement desired.

Owing to the fact that each job has different requirements, the best way is to send us a floor plan indicating how you want to use the Conveyor and our Drafting Department will prepare sketches and estimates without cost or obligation to you.

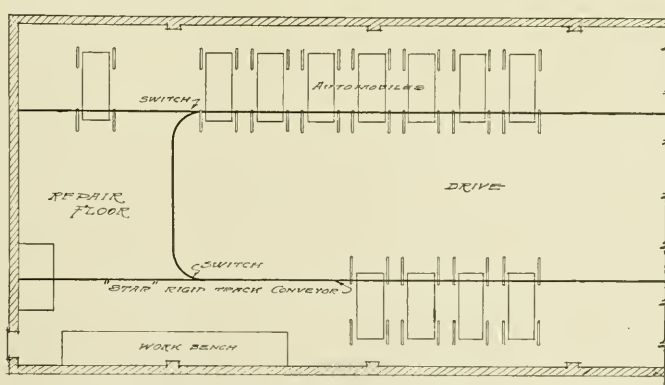
Specimen Installation of Star Trolley Conveyor

(For the Manley Garage)

STAR Trolley Conveyor has made good with us. It's certainly GREAT. It is never around in the way, but is always handy when needed. Nothing could do the work better, if it cost ten times the few dollars this outfit costs us.

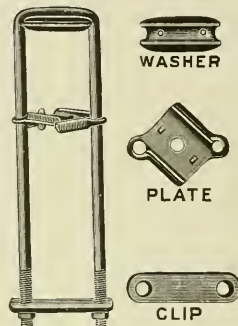
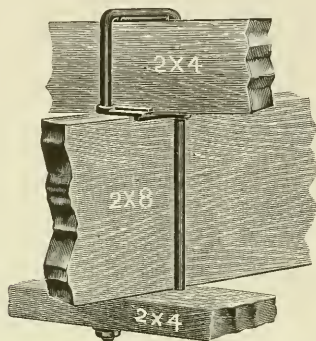
Manley Garage,
Harvard,
Illinois.

P. S. Can't make it too strong. It works finer than silk.



FLOOR PLAN OF MANLEY GARAGE
HARVARD, ILL.

New Star Hay Rack Clamps



THE use of bolts in constructing hay racks is out of date. The boring of holes in the timber is not only useless work, but it deprives the timbers of practically one-half of their strength. This can be avoided by the use of the STAR Hay Rack Clamp. No holes are necessary where the STAR Hay Rack Clamp is used, and the full strength of the timbers is thus retained.

The STAR Hay Rack Clamp is so simple that any one can put a rack together with it, the only tools needed being a wrench and a saw. The time

and labor saved in the making of the rack will pay part of the cost of the clamps.

When the clamps are tightened the rack is rigid, and the intermediate bracket being studded and flanged, twisting or slipping of the timbers at the joints is impossible. The clamps, which are placed astride the timbers are twice as strong as bolts. A grooved steel washer makes it impossible for the clamp to cut into the cross-piece, and the steel clip or washer keeps the bottom cross-piece from splitting.



STAR Hay Rack Clamps are made in four different sizes, put up one set of 8 clamps in a box, as shown above:

- | | | |
|--------|-------------------------------|-------------------|
| No. 0. | Star Hay Rack Clamp, 12-inch. | 11½ lbs. per set. |
| No. 1. | Star Hay Rack Clamp, 14-inch. | 12½ lbs. per set. |
| No. 2. | Star Hay Rack Clamp, 16-inch. | 13½ lbs. per set. |
| No. 3. | Star Hay Rack Clamp, 18-inch. | 15 lbs. per set. |

Harvard Hay Rack Fixtures

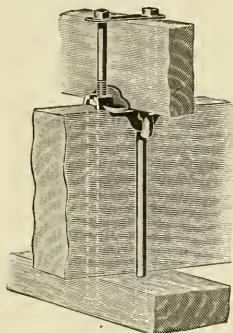


Fig. 11



Fig. 14



Fig. 15

WE desire to call your attention to Harvard Hay Rack Fixtures as illustrated. The demand for a suitable and convenient set of hay rack irons has induced us to put on the market what we believe to be the simplest and best device of this kind ever offered. Bolts for hay racks are out of date. The timbers are weakened by boring holes. They are inconvenient to use and do not make a strong rack. By using Harvard Hay Rack Fixtures it is not necessary to bore holes in the timbers and they are so simple in construction that anyone can use them.

A new and excellent feature of the Harvard Hay Rack Fixture is that it is so constructed that it is not necessary to hold the three pieces of the rack em-

braced by the fixture in place to be clamped all at one time. For instance, the lower cross pieces and the stringers which rest on them can first be clamped together and then the upper cross pieces can be laid on and clamped in place. This feature makes it very simple to assemble the rack.

Another advantage which the Harvard Hay Rack Fixtures have, on account of the features above described, is that the top of the hay rack may be removed, leaving the two stringers and lower cross pieces, making a wagon box. This will be found to be a very handy attachment and one that will favorably impress the users of hay racks.

Made in four sizes

- | | | |
|--------|--|--------------------------|
| No. 1. | 14 inches long, for 2 x 4 cross pieces, 2 x 8 bed pieces. | Weight, per set, 14 lbs. |
| No. 2. | 16 inches long, for 2 x 6 cross pieces, 2 x 8 bed pieces. | Weight, per set, 15 lbs. |
| No. 3. | 16 inches long, for 2 x 4 cross pieces, 2 x 10 bed pieces. | Weight, per set, 17 lbs. |
| No. 4. | 18 inches long, for 2 x 6 cross pieces, 2 x 10 bed pieces. | Weight, per set, 18 lbs. |

No. 60 Star Manhole Ring and Cover



Fig. 60
Showing Cover Removed



Fig. 61
Showing Cover in Place

THE above illustrations show the STAR Manhole Ring and cover. Every dealer has many calls for these for covering cesspools, outdoor cisterns, gas depositaries, etc.

Diameter of ring, $22\frac{3}{4}$ inches.

Diameter of cover, $20\frac{1}{2}$ inches.

Weight, complete, 46 lbs.

No. 435 Star Offset Hinges

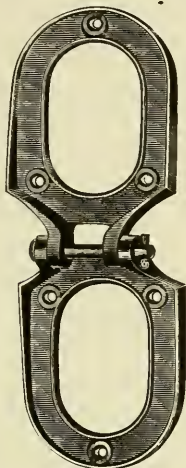


Fig. 435

Hinge

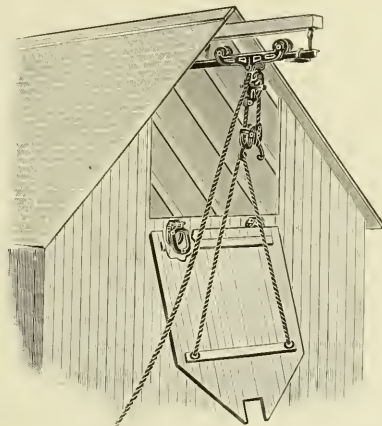


Fig. 436

Hinge on Gable Door

THE STAR Offset Hinge is for use on the Hay Door in the gable end of the barn when hay is taken in at the end of the barn. The door, which should be cut in at the top of the gable, should be 10 feet wide by 12 feet high, when harpoon fork is used and 12 feet wide by 15 feet high where slings are used.

By using STAR Offset Hinges rain or snow will be kept out of the gable end of the barn. In Fig. 436 we show the method by which the door can be raised when desired by attaching a rope fastened to the door to one of the pulley blocks attached to the Carrier, and by running the Carrier into the barn by means of the draft rope the door will be pulled up instantly.

STAR Offset Hinges are made of malleable iron and the upper and lower parts of the Hinges are held together by steel pins and cotters.

Weight of hinges, per set, 3 lbs.

No. 225 Star Anvil and Vise

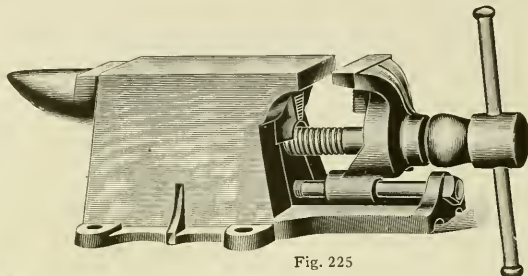


Fig. 225

A VERY useful and convenient tool. No mechanic or farmer can afford to be without one. Face hardened and polished. Wrought iron screw. Face 3 x 7 inches. Jaw

will open 4 inches. Will hold gas pipe or round iron.

Weight each, 22 pounds.

No. 492 Star Stake Holder

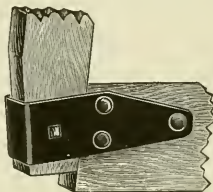


Fig. 492

THE STAR Stake Holder is made of steel, 2½ inches in width, and ⅛-inch in thickness, intended to hold a 2 x 4 or 2 x 3 inch stake, tapered at the lower end. It is fastened

to the ends of the cross timbers of the hay rack by means of bolts so that the side stakes will fit securely into this holder, as shown.

Weight, per dozen, 15 pounds.

No. 64 Star Boat Anchor

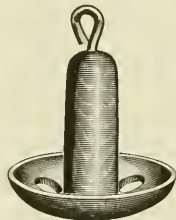


Fig. 64

THE STAR Boat Anchor is 12 inches high. Its base is 8½ inches wide.

The STAR Anchor is the most practical type made for row-boat requirements. It attaches to the bottom easily and surely, and at the same time can be disengaged and lifted

easily and quickly, the water running out through the holes in the base.

The STAR Boat Anchor will not catch on snags.

Weight each, 18 pounds.

No.233 Star Windmill Regulators

One of the Most Useful
Inventions Ever Offered
to the Public

BECAUSE this machine takes full charge of the windmill.

Because it pulls the mill out of gear before the tank overflows.

Because it will allow the mill to go into gear when the water is lowered in the tank.

Because it does away with the mudholes around the tank.

Because it saves water.

Because it saves the mill and does not allow it to do any pumping when it is not necessary.

Because the farmer does not have to go and put the mill in and out of gear.

Because it will work on any windmill.

Because it will work just as well when the tank is at a distance from the mill.

Because it will do its work when you are asleep, when gone to town, or when in the field.

Weight, each, 40 lbs.

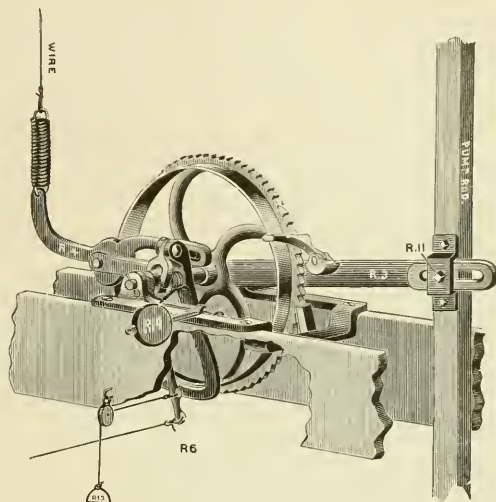


Fig. 233

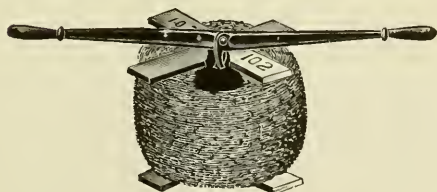


Fig. 187

No. 187 Star Wire Lifter

MADE of best malleable iron.
Length, 36 inches. Weight,
3 lbs. Indispensable for
handling wire.



A Word About Wagons

THE two BIG things about a wagon are—STRENGTH—LOOKS. The appearance of Overland Wagons sells them on sight. Clear, clean, white ash boxes finished with two fine coats of implement coach varnish, covered on the bottom as well as on the sides—an honest job of finishing, artistically striped, scrolled and stenciled. Every single part is finished carefully, no daub or "slab" work on our goods.

This, because we realize that "looks" make the first sale and our quality shows at a glance or on minute inspection.

But while "looks" may make the first sale, "durability" is what makes the repeat orders. And from a "wear" standpoint, our wagons are in a class by themselves. The rim of the wheels is pressed around the spokes, making it impossible for them to loosen. An all-steel construction below the box and a brace from the bottom of the bed to the front axle so when a boy runs into the curb or telegraph pole, his wagon is still in service. This is an exclusive feature with us.

The full roller bearing axles make our wagons an easy pull for a three-year-old. In our construction are embodied all modern improvements and many exclusive features which make Hunt, Helm, Ferris & Co. Wagons the most saleable and satisfactory on the market today.



Overland Coaster Wagon

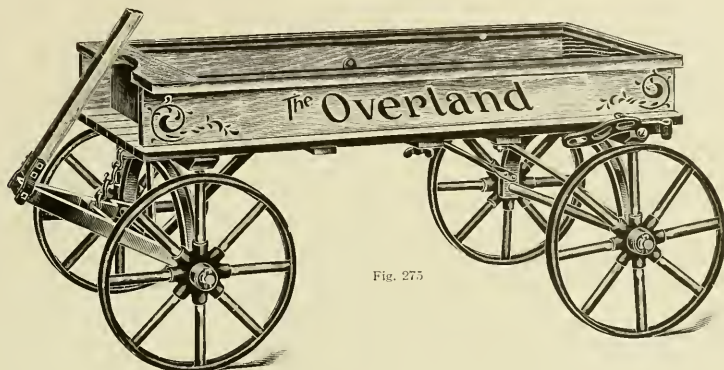


Fig. 275

SPECIFICATIONS

BODY—Clear white ash, natural finish, trimmed in red and stenciled in black and green.

GEARS—Channel arch truss steel construction, enameled black.

FIFTH WHEEL—Extra large, made of steel.

AXLES—One-half inch round steel, firmly braced front and rear.

WHEELS—Heavy iron hub into which straight, smooth, kiln-dried hardwood spokes are driven. Felloes and tires of heavy steel, electrically welded, with edges curled in to hold the ends of the spokes.

BEARINGS—Each wheel fitted with eleven cold rolled steel bearings, held in place by a special washer that does not wear cotter pin.

TONGUE—Hard, straight maple which bends back and allows wagon to be steered from box.

BRAKES—Malleable iron.

Overland Coaster Wagon With Box Removed

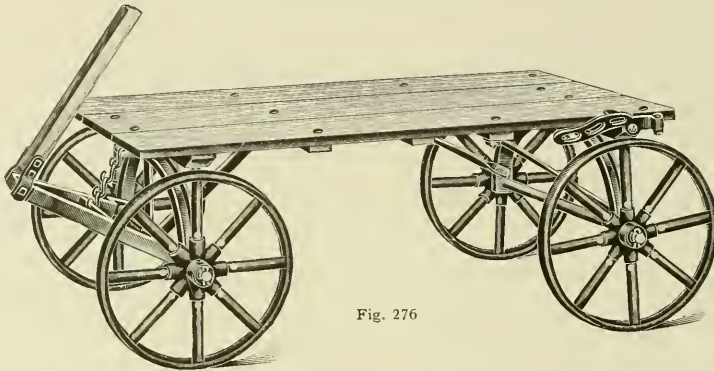


Fig. 276

THE express box on all Overland Coaster Wagons can be instantly removed or replaced. The wagon may be changed from express to coaster in a minute.

A simple connection, easily operated, locks box firmly to the bed.

Overland Wagons are furnished in the following sizes:

No.	Bed Inches	Wheel Diameter Inches	Style Brake	Weight Lbs. Per Doz.
0A	12 x 28 in.	8 in.	Hand	288
1A	14 x 32 in.	8 in.	Hand	312
2A	14 x 34 in.	11 in.	Hand	396
2½A	15½ x 36 in.	11 in.	Hand	414
3A	16 x 38 in.	11 in.	Hand	438
4A	18 x 40 in.	11 in.	Hand	492



Automatic Wagon Salesman



Goods Attractively Displayed Are More Than Half Sold

And these Wagon Display Fixtures make the wagons look extra good to the folks who are going to buy them.

Put a rack of our wagons out in front of your store—let our goods do their own talking—sales will come almost of themselves. Results from the use of Display Fixtures will show you why dealers who have used it, call it the “AUTOMATIC WAGON SALESMAN.”

A Glimpse of the Factory Behind Star Goods

THERE are a little over 3,000 people in Harvard, Illinois, where the Hunt, Helm, Ferris & Co.'s factory is located.

Statisticians tell us that the average family consists of five people.

Consequently about half the population of Harvard are dependent upon the Hunt, Helm, Ferris & Co. factory.

Our workmen have practically been brought up in the business.

Our factory covers more than six acres of floor space.

Every kind of modern labor-saving machinery is included in the equipment.

Cost of production is down to the minimum.

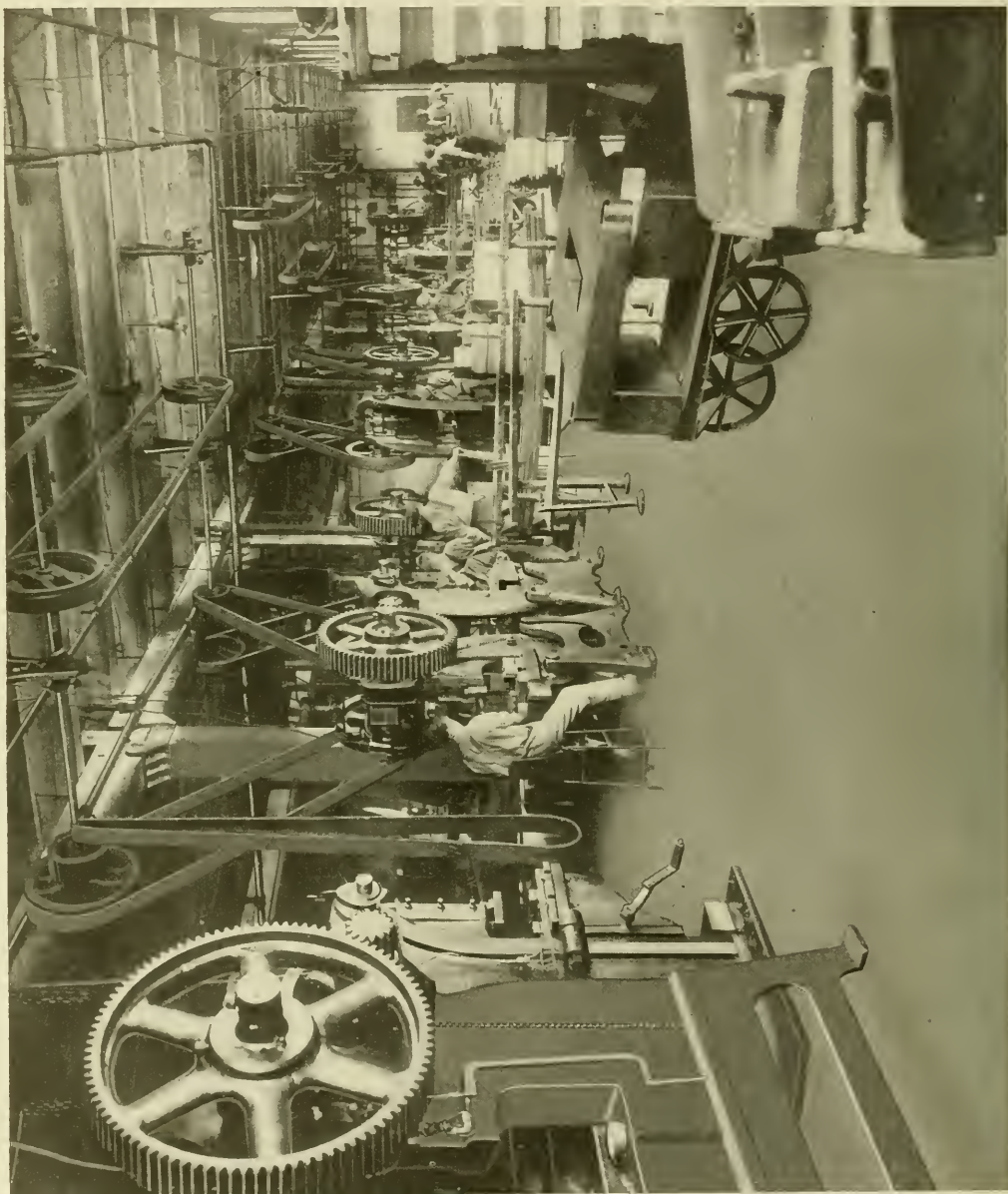
There's nothing we would like better than to have you make a trip through our factory in person.

But the next best thing is to look over the photographs of different parts of our plant reproduced in the following pages.

And it's all the result of thirty-six years of giving people full value for their money.



General Office of Hunt, Helm, Ferris & Co.



Press Room



Machine and Tool Shop



Wood Working Room

Foundry

STAR LINE EQUIPMENT



Section of Paint Shop

Section of Shipping Room



General Assembly Room

Barn Equipment Assembly Room

